RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/900.063C
Source:	1FW16
Date Processed by STIC:	4/17/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial	Number: <u>09/900, 063C</u>	CRF Edit Date: 4/17/06 Edited by: M2
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers e	dited were:
	Inserted or corrected a nucleic number at the en NO's edited:	d of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	s, specifically:
	Moved responses to same line as heading/numeri	ic identifier, specifically:
	Other: Segn 14-15- charged "amine acid" in 62237 response	do "nucleotide"



IFW16

RAW SEQUENCE LISTING DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 12:30:05

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\I900063C.raw

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              Vincent, Amy L.
              Tuggle, Christopher K.
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LITTER SIZE IN
      5
             ANIMALS
      6 <130> FILE REFERENCE: P02285US5
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      8 <141> CURRENT FILING DATE: 2001-07-06
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     10 <151> PRIOR FILING DATE: 1997-03-06
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     12 <151> PRIOR FILING DATE: 1996-11-01
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RAW SEQUENCE LISTING DATE: 04/17/2006 PATENT APPLICATION: US/09/900,063C TIME: 12:30:05 Input Set : A:\PTO.CHG.RAW Output Set: N:\CRF4\04172006\1900063C.raw 47 gtggggtttt tttcaggtcg cactacgtga aatgcactct accagagaaa gctcgaaaat 420 48 qqqqttagaa tgacactacc cagactcaca gttcactcct cttcatgctc cattttcaac 480 49 cacttgcctc tt 492 51 <210> SEQ ID NO: 4 52 <211> LENGTH: 20 53 <212> TYPE: DNA 54 <213> ORGANISM: Unknown 55 <220> FEATURE: 56 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor w ere used to design the degenerate primer 57 58 <220> FEATURE: 59 <221> NAME/KEY: misc_difference 60 <222> LOCATION: (13)..(13) 61 <223> OTHER INFORMATION: C/T 62 <400> SEQUENCE: 4 63 tcacaaggtc aacaaagatg 20 65 <210> SEQ ID NO: 5 66 <211> LENGTH: 20 67 <212> TYPE: DNA 68 <213> ORGANISM: Unknown 69 <220> FEATURE: 70 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor w ere used to design the degenerate primer 71 72 <220> FEATURE: 73 <221> NAME/KEY: misc difference 74 <222> LOCATION: (3)..(3) 75 <223> OTHER INFORMATION: G/A 76 <220> FEATURE: 77 <221> NAME/KEY: misc difference 78 <222> LOCATION: (9)..(9) 79 <223> OTHER INFORMATION: G/A 80 <220> FEATURE: 81 <221> NAME/KEY: misc difference 82 <222> LOCATION: (16)..(16) 83 <223> OTHER INFORMATION: G/A 84 <400> SEQUENCE: 5 tggagaaaga ggcaagtggt 20 87 <210> SEQ ID NO: 6 88 <211> LENGTH: 20 89 <212> TYPE: DNA 90 <213> ORGANISM: Porcine 91 <400> SEQUENCE: 6 cggccgcaga atcctgctgc 20 92 94 <210> SEQ ID NO: 7 95 <211> LENGTH: 24 96 <212> TYPE: DNA 97 <213> ORGANISM: Porcine

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RAW SEQUENCE LISTING DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 12:30:05

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\I900063C.raw

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DATE: 04/17/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/900,063C TIME: 12:30:05

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\1900063C.raw

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RAW SEQUENCE LISTING DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 12:30:05

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\I900063C.raw

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216		ccacaaggaa gg					132

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/900,063C
DATE: 04/17/2006
TIME: 12:30:06

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\I900063C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 36 Seq#:15; N Pos. 49,67

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4
Seq#:4; Line(s) 56
Seq#:5; Line(s) 70

VERIFICATION SUMMARY

DATE: 04/17/2006 PATENT APPLICATION: US/09/900,063C TIME: 12:30:06

Input Set : A:\PTO.CHG.RAW

Output Set: N:\CRF4\04172006\I900063C.raw

L:7 M:270 C: Current Application Number differs, Wrong Format

L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:176~M:341~W:~(46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60

Raw Sequence Listing before editing (for reference only)



IFW16

DATE: 04/17/2006 RAW SEQUENCE LISTING TIME: 10:33:28 PATENT APPLICATION: US/09/900,063C Input Set : N:\SMITH\PTO.TS.txt Output Set: N:\CRF4\04132006\1900063C.raw 5 <110> APPLICANT: Rothschild, Max F. Vincent, Amy L. Tuggle, Christopher K. 13 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED LITTER SIZE IN 14 ANIMALS 18 <130> FILE REFERENCE: P02285US5 22 <140> CURRENT APPLICATION NUMBER: US 09/900,063C 24 <141> CURRENT FILING DATE: 2001-07-06 28 <150> FOTOR APPLICATION NUMBER: US 08/812,208 30 <151> PRIOR FILING DATE: 1997-03-06 34 <150> PRIOR APPLICATION NUMBER: US 08/742,805 36 <151> PRIOR FILING DATE: 1996-11-01 **Does Not Comply** 40 <150> PRIOR APPLICATION NUMBER: US 60/022,180 Corrected Disaste Needed 42 <151> PRIOR FILING DATE: 1996-07-19 46 <160> NUMBER OF SEQ ID NOS: 18 50 <170> SOFTWARE: PatentIn version 3.1 54 <210> SEO ID NO: 1 56 <211> LENGTH: 20 58 <212> TYPE: DNA 60 <213> ORGANISM: Porcine 64 <400> SEQUENCE: 1 20 65 cccaaaacag caggagaacg 68 <210> SEQ ID NO: 2 70 <211> LENGTH: 20 72 <212> TYPE: DNA 74 <213> ORGANISM: Porcine 78 <400> SEQUENCE: 2 79 qqcaaqtqqt tqaaaatqqa 20 82 <210> SEQ ID NO: 3 84 <211> LENGTH: 492 86 <212> TYPE: DNA 88 <213> ORGANISM: Porcine 92 <220> FEATURE: 94 <221> NAME/KEY: allele 96 <222> LOCATION: (240)..(240) 98 <223> OTHER INFORMATION: G/A polymorphic site 102 <400> SEQUENCE: 3 103 aagtcaacaa agatggagca ctggcgttgc tcccaaaaca gcaggagaac ggcgaccggc 60 105 cggagaagge tggegeeet gaaaccagea aggaataege ceaggtgtee cgggtgatgg 120 180 107 ataaccacat cetggtgtta gtgcaggate cgcgageteg aaacgtgget ccgtttgaag

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240

300

360

DATE: 04/17/2006

TIME: 10:33:28 PATENT APPLICATION: US/09/900,063C Input Set : N:\SMITH\PTO.TS.txt Output Set: N:\CRF4\04132006\I900063C.raw 115 gtggggtttt tttcaggtcg cactacgtga aatgcactct accagagaaa gctcgaaaat 420 117 ggggttagaa tgacactacc cagactcaca gttcactcct cttcatgctc cattttcaac 480 492 119 cacttgcctc tt 122 <210> SEQ ID NO: 4 124 <211> LENGTH: 20 126 <212> TYPE: DNA 128 <213> ORGANISM: Unknown 132 <220> FEATURE: 134 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor w ere used to design the degenerate primer 137 <220> FEATURE: 139 <221> NAME/KEY: misc difference 141 <222> LOCATION: (13)..(13) 143 <223 > OTHER INFORMATION: C/T 147 <400> SEQUENCE: 4 20 148 tcacaaggtc aacaaagatg 151 <210> SEQ ID NO: 5 153 <211> LENGTH: 20 155 <212> TYPE: DNA 157 <213> ORGANISM: Unknown 161 <220> FEATURE: 163 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor w ere used to design the degenerate primer 164 166 <220> FEATURE: 168 <221> NAME/KEY: misc_difference 170 <222> LOCATION: (3)..(3) 172 <223> OTHER INFORMATION: G/A 176 <220> FEATURE: 178 <221> NAME/KEY: misc_difference 180 <222> LOCATION: (9)..(9) 182 <223> OTHER INFORMATION: G/A 186 <220> FEATURE: 188 <221> NAME/KEY: misc difference 190 <222> LOCATION: (16)..(16) 192 <223> OTHER INFORMATION: G/A 196 <400> SEQUENCE: 5 20 197 tggagaaaga ggcaagtggt 200 <210> SEQ ID NO: 6 202 <211> LENGTH: 20 204 <212> TYPE: DNA 206 <213> ORGANISM: Porcine 210 <400> SEQUENCE: 6 20 211 cggccgcaga atcctgctgc 214 <210> SEQ ID NO: 7 216 <211> LENGTH: 24 218 <212> TYPE: DNA 220 <213> ORGANISM: Porcine 224 <400> SEQUENCE: 7 225 accccacctt gtaacccatc atcc 24

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 10:33:28

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Output Set: N:\CRF4\04132006\I900063C.raw

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DATE: 04/17/2006

TIME: 10:33:28 PATENT APPLICATION: US/09/900,063C Input Set : N:\SMITH\PTO.TS.txt Output Set: N:\CRF4\04132006\1900063C.raw 341 agegeagttg tgaaatagta aaegtetgae aagaacagea aataateeca etagtaattt 300 343 cagaatccgc ctcctcaatt agccagaatt cactgtgatg ctggcctcta taattattat 360 345 ttgtcttcac cactgattag tttcacatca tgaaaattgc atgtcattta gtttcacrta 420 347 geeteagaac caaccetaat tectacetge catatecetg tageagetat tegaagatea 480 349 caaggtggga acatgtgtya tttatctttt ctcttacatt attttagagc atggtggcct 540 351 gcatccgggc caaaaataaa aggatt 566 354 <210> SEQ ID NO: 15 356 <211> LENGTH: 518 358 <212> TYPE: DNA 360 <213> ORGANISM: Porcine Alis is not an anis and sequence amino acid position 49 "Muchotile" 364 <220> FEATURE: 366 <221> NAME/KEY: misc feature 368 <222> LOCATION: (49)..(49) 370 <223> OTHER INFORMATION: n = unknown in/ 374 <220> FEATURE: 376 <221> NAME/KEY: misc feature 378 <222> LOCATION: (67)..(67) 380 <223> OTHER INFORMATION: n = unknown in amino acid position 67 384 <400> SEQUENCE: 15 W--> 365 gracacacae acacacaca acacacaca acacaccace graagetnt criticigaat W--> 387 catgccnacc cgagggccac ccatagagga gtgtggtgga gggtgccttg gcacttctga 120 180 389 gecetgeate cetacaceca etageeteaa gatgteatee etgeeetgge eeccacecat 391 ctgcttctgt caccagcaga atggtccagt cattgagcgg accttcatat tgactccagt 240 300 393 ggcttctggc tttttctagg acagtcacct ccgggaaaac ctgagatctt caaatgtcgt 360 395 tetecequaa aqqaaacatt eqeetqetqq tqqaaqeeqq qqqeqgatqq aqgaetteet 420 397 accaactaga cgctgactta ccacaaggaa gggtaagcat tcgcgtgtct cccaacaaac 399 cacacgagtg ttctctctct gtgggccaga ggaacactgc ttctgggtta gaactgcctc 480 518 401 gctttggagt tcccgtcatg gctcagtggt aacgaatc 404 <210> SEQ ID NO: 16 406 <211> LENGTH: 133 408 <212> TYPE: DNA 410 <213> ORGANISM: Homo sapiens 414 <400> SEQUENCE: 16 415 gacagttacc tcctggaaaa cctgagatct ttaaatgtcg ttctcccaat aaggaaacat 60 417 tcacctgctg gtggaggcct gggacagatg gaggacttcc taccaattat tcactgactt 120 419 accacaggga agg 133 422 <210> SEQ ID NO: 17 424 <211> LENGTH: 53 426 <212> TYPE: PRT 428 <213> ORGANISM: Homo sapiens 432 <400> SEQUENCE: 17 434 Gly Gln Leu Pro Pro Gly Lys Pro Glu Ile Phe Lys Ser Pro Phe Cys 435 1 438 Arg Ser Pro Asn Lys Glu Thr Phe Thr Glu Ala Arg Pro Gly Thr Asp 25 442 Gly Gly Leu Pro Thr Asn Lys Pro Ala Asn Tyr Ser Leu Thr Tyr His . 446 Arg Glu Gly Thr Lys 447 50

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 10:33:28

Input Set : N:\SMITH\PTO.TS.txt

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Output Set: N:\CRF4\04132006\1900063C.raw

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/17/2006
PATENT APPLICATION: US/09/900,063C TIME: 10:33:29

Input Set : N:\SMITH\PTO.TS.txt

Output Set: N:\CRF4\04132006\I900063C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 36 Seq#:15; N Pos. 49,67

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 13

VERIFICATION SUMMARY

DATE: 04/17/2006

PATENT APPLICATION: US/09/900,063C

TIME: 10:33:29

Input Set : N:\SMITH\PTO.TS.txt

Output Set: N:\CRF4\04132006\I900063C.raw

L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60